

Executive Summary Report

SMOG CHECK Statewide

September 2013

1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	884,735	105,042	11.87%
Total	1,008,695	133,671	13.25%

2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	772,349	87.30%	112,386	12.70%
Total	865,147	85.77%	143,548	14.23%

3. Certification Volume by Station Type*

Station Types	Certificates Issued on Initial Test	Percent (%) Certificates Issued	No Certificates Issued on Initial Test	Percent (%) No Certificates Issued
STAR Test Only	385,482	85.93%	63,141	14.07%
Non-STAR Test Only	42,132	90.35%	4,498	9.65%
STAR Test and Repair	181,133	86.90%	27,296	13.10%
Non-STAR Test and Repair	157,937	91.27%	15,102	8.73%
Total	766,684	86.66%	118,051	13.34%

*Note: Excludes Basic area dealer, Fleets, and Referee stations

4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	10,428	1.18%
All Emissions	47,310	5.35%
All Visual	19,145	2.16%
All Functional	66,359	7.50%
OBDII	44,241	5.00%
Overall	105,042	11.87%

5. Initial Tests at All Test-Only Stations

Vehicles	STAR Station Initial Tests	Non-STAR Station Initial Tests	STAR Station Certificates Issued	Non-STAR Station Certificates Issued
Directed	190,038	445	149,036	91
Non-Directed	258,585	46,185	236,446	42,041
Total	448,623	46,630	385,482	42,132

6. Initial Tests at All Test and Repair Stations

Vehicles	STAR Station Initial Tests	Non-STAR Station Initial Tests	STAR Station Certificates Issued	Non-STAR Station Certificates Issued
Directed	65,942	1,235	51,530	152
Non-Directed	142,487	171,804	129,603	157,785
Total	208,429	173,039	181,133	157,937

7. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	703,652	88,056	12.51%	8,551	1.22%
Partially Enhanced	45,620	5,514	12.09%	576	1.26%
Basic	80,528	6,787	8.43%	723	0.90%
Change of Ownership	5,663	738	13.03%	135	2.38%
No Program	7	1	14.29%	0	0.00%
Unknown Program	49,265	3,946	8.01%	443	0.90%
Total Program Area	884,735	105,042	11.87%	10,428	1.18%

8. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
STAR Test Only	448,623	62,062	13.83%	6,301	1.40%
Non-STAR Test Only	46,630	4,172	8.95%	403	0.86%
STAR Test and Repair	208,429	26,087	12.52%	2,556	1.23%
Non-STAR Test and Repair	173,039	12,063	6.97%	1,090	0.63%
Basic Area Dealer	4,010	109	2.72%	6	0.15%
Business Fleet	3	1	33.33%	0	0.00%
Permanent Fleet Registered	146	13	8.90%	0	0.00%
Referee	434	184	42.40%	29	6.68%
Government Fleet	1,753	136	7.76%	16	0.91%
Unknown Privilege	1,616	214	13.24%	27	1.67%
Total	884,735	105,042	11.87%	10,428	1.18%

9. Number of Stations by Type/Privilege and Program Area

Station Type	Enhanced	Partial	Basic	Change of Ownership	Unknown	Total
STAR Regular Test and Repair CAP Enhanced	1,778	77	32	0	0	1,887
STAR Regular Test and Repair CAP Basic	0	0	94	0	0	94
STAR Regular Test and Repair COO	15	0	1	65	0	81
STAR Test Only	1,789	27	16	0	0	1,832
Non-STAR Regular Test and Repair	2,284	239	484	40	0	3,047
Non-STAR Test Only	677	16	12	0	0	705
Repair Only	72	3	3	0	0	78
Basic Area Dealer	0	0	82	0	0	82
Business Fleet	3	0	0	0	0	3
Permanent Fleet Registered	28	1	4	0	0	33
Referee	36	0	6	1	0	43
Government Fleet	248	9	37	2	0	296
Unknown Type	7	0	0	0	0	7
Total	6,937	372	771	108	0	8,188

10. Initial Tests by Vehicle Model Year

Model Year	Initial Tests	Failed Overall	Percent (%) Failed Overall	Percent (%) Failed Emissions	Percent (%) Failed Gross Polluters	Percent (%) Failed Functional	Percent (%) Failed Visual	Percent (%) Failed OBDII
MY-1976	613	215	35.07%	25.77%	11.58%	20.23%	12.07%	0.00%
MY-1977	971	331	34.09%	20.91%	8.03%	20.19%	12.56%	0.00%
MY-1978	1,019	345	33.86%	21.79%	9.42%	21.20%	12.37%	0.00%
MY-1979	1,188	435	36.62%	23.82%	9.01%	19.28%	12.12%	0.00%
MY-1980	686	210	30.61%	20.70%	10.64%	18.66%	10.79%	0.00%
MY-1981	821	278	33.86%	25.09%	8.77%	17.54%	9.99%	0.00%
MY-1982	911	350	38.42%	29.42%	12.07%	20.86%	12.51%	0.00%
MY-1983	1,146	410	35.78%	25.92%	9.34%	17.71%	11.78%	0.00%
MY-1984	1,999	735	36.77%	27.16%	10.41%	19.01%	11.06%	0.00%
MY-1985	2,802	1,010	36.05%	27.94%	10.39%	18.09%	9.85%	0.00%
MY-1986	4,513	1,575	34.90%	25.73%	9.88%	18.35%	9.11%	0.00%
MY-1987	4,685	1,660	35.43%	26.70%	8.92%	17.50%	8.60%	0.00%
MY-1988	5,682	1,828	32.17%	23.72%	7.02%	15.72%	7.23%	0.00%
MY-1989	8,355	2,564	30.69%	21.80%	6.07%	15.37%	6.70%	0.00%
MY-1990	9,745	3,002	30.81%	22.56%	6.63%	14.91%	5.80%	0.00%
MY-1991	12,508	3,775	30.18%	21.85%	5.53%	14.93%	5.91%	0.00%
MY-1992	12,156	3,652	30.04%	22.03%	6.10%	14.41%	5.94%	0.00%
MY-1993	16,680	5,198	31.16%	23.54%	4.81%	13.54%	5.29%	0.00%
MY-1994	18,976	5,539	29.19%	21.33%	4.36%	12.86%	5.30%	0.00%
MY-1995	29,203	7,410	25.37%	17.85%	3.15%	10.91%	4.58%	0.00%
MY-1996	21,538	5,040	23.40%	12.09%	1.63%	13.78%	4.14%	11.77%
MY-1997	39,468	7,472	18.93%	8.94%	1.35%	11.17%	3.34%	9.55%
MY-1998	33,601	5,931	17.65%	7.45%	1.21%	11.15%	3.33%	9.79%
MY-1999	54,105	6,783	12.54%	4.24%	0.64%	8.61%	2.34%	7.77%
MY-2000	41,889	5,596	13.36%	3.86%	0.71%	9.74%	2.43%	9.10%
MY-2001	86,232	9,790	11.35%	1.87%	0.29%	9.29%	1.70%	8.98%
MY-2002	38,934	4,417	11.34%	2.13%	0.40%	9.05%	1.91%	8.81%
MY-2003	103,357	7,429	7.19%	1.01%	0.21%	5.92%	1.13%	5.78%
MY-2004	35,668	2,510	7.04%	1.19%	0.20%	5.64%	1.17%	5.46%
MY-2005	102,341	4,498	4.40%	0.57%	0.10%	3.57%	0.62%	3.49%
MY-2006	31,240	1,313	4.20%	0.93%	0.12%	3.23%	0.71%	3.15%
MY-2007	113,069	2,935	2.60%	0.27%	0.03%	2.13%	0.35%	2.08%
MY-2008	14,219	290	2.04%	0.58%	0.02%	1.65%	0.22%	1.60%
MY-2009	9,293	176	1.89%	0.42%	0.00%	1.51%	0.23%	1.48%
MY-2010	5,959	92	1.54%	0.29%	0.00%	1.26%	0.13%	1.19%

Model Year	Initial Tests	Failed Overall	Percent (%) Failed Overall	Percent (%) Failed Emissions	Percent (%) Failed Gross Polluters	Percent (%) Failed Functional	Percent (%) Failed Visual	Percent (%) Failed OBDII
MY-2011	6,537	74	1.13%	0.37%	0.02%	0.90%	0.11%	0.89%
MY-2012	7,802	93	1.19%	0.33%	0.04%	0.83%	0.17%	0.79%
MY-2013	4,522	78	1.72%	0.15%	0.02%	1.55%	0.07%	1.50%
MY-2014	301	3	1.00%	0.00%	0.00%	1.00%	0.00%	1.00%
MY-2015	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
All Model Years	884,735	105,042	11.87%	5.35%	1.18%	7.50%	2.16%	5.00%

11. Referee Activity

	Certificates Issued
Certificate of Compliance	484
Certificate of Non Compliance	0
Parts Cost	72
Hardship Extensions	0
Exempt Vehicle	27
Exempted by Directive	3
Parts Exemption	9
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	595

12. Active Stations

	Station Count
Licensed Stations that did not Conduct a Test	1,166
Stations Locked-Out at Least Once	964
Stations Conducted at Least One Test	7,022

13. Active Technicians

License Type	Technician Count	Daily Average
EA (Test and Repair Enhanced)	3,734	2,246
EB (Test and Repair Basic)	169	0
EI (Repair Only)	0	0
EO (Test and Repair)	5,928	3,619
EO (Test Only)	1,047	684

14. Inspection Costs

Station Type	ASM Initial Test Count	Avg ASM Inspection Cost	TSI Initial Test Count	Avg TSI Inspection Cost	Total Initial Tests	Overall Average Inspection Cost
STAR Test and Repair	156,762	46.85	45,966	46.98	202,728	46.88
STAR Test Only	374,720	47.74	62,774	49.21	437,494	47.95
Non-STAR Test and Repair	95,315	49.87	70,872	45.94	166,187	48.20
Non-STAR Test Only	33,796	43.24	10,680	39.83	44,476	42.42
Test and Repair Dealer	7	68.14	3,726	56.13	3,733	56.15
Total	660,600	47.61	194,018	47.10	854,618	47.49

15. Repair Costs

Repair Station Type	All Cost Ranges	Repair Count	Average Cost	(All Cost Ranges) Repair Count	(All Cost Ranges) Average Cost
STAR Repairs (Test and Repair, Non-CAP)	\$1-50	2,410	23.89	10,793	314.30
	\$51-150	2,045	100.23		
	\$151-250	1,570	202.15		
	\$251-450	2,264	344.32		
	Over \$450	2,504	811.79		
Non-STAR Repairs (Test and Repair)	\$1-50	1,389	22.57	4,963	254.68
	\$51-150	1,112	100.78		
	\$151-250	824	202.09		
	\$251-450	912	337.88		
	Over \$450	726	889.63		
Repair Only	\$1-50	0	0.00	1	600.00
	\$51-150	0	0.00		
	\$151-250	0	0.00		
	\$251-450	0	0.00		
	Over \$450	1	600.00		
CAP Repairs	\$1-50	67	24.03	811	373.45
	\$51-150	80	104.51		
	\$151-250	89	202.13		
	\$251-450	238	353.24		
	Over \$450	337	566.28		
Total Repairs	\$1-50	3,866	23.42	16,568	299.35

Repair Station Type	All Cost Ranges	Repair Count	Average Cost	(All Cost Ranges) Repair Count	(All Cost Ranges) Average Cost
	\$51-150	3,237	100.53		
	\$151-250	2,483	202.13		
	\$251-450	3,414	343.22		
	Over \$450	3,568	804.38		

16. CAP Repair Costs

	Total Vehicles	Average Repair Cost
CAP Repairs	818	360.96

17. Drill-Through

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Basic	Non-STAR Test and Repair	83	15	2	0	7	7	8	1
Acceleration Simulation Mode (ASM)	Basic	Non-STAR Test Only	10	2	0	1	0	1	0	2
Acceleration Simulation Mode (ASM)	Basic	STAR Test and Repair	38	11	0	0	6	5	9	2
Acceleration Simulation Mode (ASM)	Basic	STAR Test Only	56	4	0	0	1	1	2	1
Acceleration Simulation Mode (ASM)	Change of Ownership	STAR Test Only	12	4	1	1	0	3	2	2
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	43	2	2	30	8	35	3
Acceleration Simulation Mode (ASM)	Enhanced	Non-STAR Test and Repair	63,683	4,422	345	364	2,308	1,682	3,023	685
Acceleration Simulation Mode (ASM)	Enhanced	Non-STAR Test Only	25,887	2,641	238	247	1,312	1,011	1,861	480
Acceleration Simulation Mode (ASM)	Enhanced	Referee	127	125	20	52	26	55	65	72
Acceleration Simulation Mode (ASM)	Enhanced	STAR Test and Repair	121,224	19,883	1,863	1,751	7,920	9,380	12,071	3,611
Acceleration Simulation Mode (ASM)	Enhanced	STAR Test Only	300,915	53,766	5,486	4,744	20,353	26,653	32,449	10,147
Acceleration Simulation Mode (ASM)	Enhanced	Unknown Privilege	1,152	195	25	23	61	118	99	42
Acceleration Simulation Mode (ASM)	Partial	Basic Area Dealer	1	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Partial	Government Fleet	0	3	0	0	1	2	1	0
Acceleration Simulation Mode (ASM)	Partial	Non-STAR Test and Repair	14,504	2,008	192	117	789	1,053	1,149	233
Acceleration Simulation Mode (ASM)	Partial	Non-STAR Test Only	2,946	411	46	47	135	206	233	81

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Partial	Referee	7	4	1	3	0	2	1	4
Acceleration Simulation Mode (ASM)	Partial	STAR Test and Repair	7,521	1,302	150	73	536	649	765	171
Acceleration Simulation Mode (ASM)	Partial	STAR Test Only	8,130	1,376	147	103	598	654	833	197
Acceleration Simulation Mode (ASM)	Partial	Unknown Privilege	15	2	0	0	1	1	1	0
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	69	9	0	20	46	25	0
Acceleration Simulation Mode (ASM)	Unknown Program	Non-STAR Test and Repair	8,857	532	48	49	280	202	364	85
Acceleration Simulation Mode (ASM)	Unknown Program	Non-STAR Test Only	2,236	249	38	27	123	113	172	48
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	14	12	1	8	2	2	8	9
Acceleration Simulation Mode (ASM)	Unknown Program	STAR Test and Repair	6,075	652	81	71	292	300	407	134
Acceleration Simulation Mode (ASM)	Unknown Program	STAR Test Only	11,509	1,451	178	156	662	680	922	340
Acceleration Simulation Mode (ASM)	Unknown Program	Unknown Privilege	42	3	1	0	1	2	1	1
Two Speed Idle (TSI)	Basic	Basic Area Dealer	2,759	85	6	2	49	15	67	9
Two Speed Idle (TSI)	Basic	Non-STAR Test and Repair	42,364	3,664	381	219	1,743	988	2,716	481
Two Speed Idle (TSI)	Basic	Non-STAR Test Only	4,181	413	43	38	183	113	282	95
Two Speed Idle (TSI)	Basic	Referee	16	13	0	10	3	1	8	11
Two Speed Idle (TSI)	Basic	STAR Test and Repair	14,204	1,620	189	124	764	431	1,165	297
Two Speed Idle (TSI)	Basic	STAR Test Only	5,976	837	102	71	370	237	596	170
Two Speed Idle (TSI)	Change of Ownership	Non-STAR Test and Repair	2,030	206	30	19	92	69	161	36
Two Speed Idle (TSI)	Change of Ownership	Non-STAR Test Only	151	21	3	3	10	5	16	6
Two Speed Idle (TSI)	Change of Ownership	STAR Test and Repair	1,712	339	71	26	125	134	225	58
Two Speed Idle (TSI)	Change of Ownership	STAR Test Only	702	149	30	12	63	51	110	34
Two Speed Idle (TSI)	Enhanced	Basic Area Dealer	238	8	0	0	5	1	7	0
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	12	5	0	6	5	7	0
Two Speed Idle (TSI)	Enhanced	Non-STAR Test and Repair	14,136	607	45	39	409	117	475	78

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Two Speed Idle (TSI)	Enhanced	Non-STAR Test Only	4,652	317	27	37	191	54	248	61
Two Speed Idle (TSI)	Enhanced	Referee	28	18	7	4	8	8	15	10
Two Speed Idle (TSI)	Enhanced	STAR Test and Repair	21,464	1,704	161	150	1,039	340	1,308	302
Two Speed Idle (TSI)	Enhanced	STAR Test Only	46,629	3,786	326	320	2,444	677	2,957	630
Two Speed Idle (TSI)	Enhanced	Unknown Privilege	137	10	1	4	5	2	6	4
Two Speed Idle (TSI)	Partial	Non-STAR Test and Repair	2,058	123	15	8	75	28	96	13
Two Speed Idle (TSI)	Partial	Non-STAR Test Only	352	24	2	0	17	4	20	2
Two Speed Idle (TSI)	Partial	STAR Test and Repair	1,159	101	11	10	55	24	68	16
Two Speed Idle (TSI)	Partial	STAR Test Only	1,139	106	12	7	65	23	79	14
Two Speed Idle (TSI)	Unknown Program	Non-STAR Test and Repair	4,695	310	32	32	178	91	241	53
Two Speed Idle (TSI)	Unknown Program	Non-STAR Test Only	696	56	6	4	34	11	39	14
Two Speed Idle (TSI)	Unknown Program	STAR Test and Repair	3,556	288	30	40	156	70	218	56
Two Speed Idle (TSI)	Unknown Program	STAR Test Only	3,802	238	19	37	152	37	179	55
UnKnown TestType	Basic	Basic Area Dealer	226	3	0	1	0	4	0	3
UnKnown TestType	Basic	Non-STAR Test and Repair	1,929	67	0	10	37	79	37	30
UnKnown TestType	Basic	Non-STAR Test Only	139	3	0	0	3	3	3	0
UnKnown TestType	Basic	STAR Test and Repair	595	32	0	6	21	31	21	13
UnKnown TestType	Basic	STAR Test Only	275	12	0	3	8	15	8	5
UnKnown TestType	Change of Ownership	Non-STAR Test and Repair	88	5	0	1	3	5	3	3
UnKnown TestType	Change of Ownership	Non-STAR Test Only	9	1	0	1	0	1	0	1
UnKnown TestType	Change of Ownership	STAR Test and Repair	96	8	0	3	5	8	5	3
UnKnown TestType	Change of Ownership	STAR Test Only	31	1	0	1	0	1	0	1
UnKnown TestType	Enhanced	Basic Area Dealer	23	0	0	0	0	1	0	0
UnKnown TestType	Enhanced	Government Fleet	0	2	0	0	2	22	2	0
UnKnown TestType	Enhanced	Non-STAR Test and Repair	2,194	69	0	9	52	100	52	19
UnKnown TestType	Enhanced	Non-STAR Test Only	684	28	0	4	20	37	20	8
UnKnown TestType	Enhanced	Referee	15	5	0	2	1	5	1	3
UnKnown TestType	Enhanced	STAR Test and Repair	2,690	116	0	12	79	133	79	43
UnKnown TestType	Enhanced	STAR Test Only	5,448	292	0	43	199	305	199	105

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
UnKnown TestType	Enhanced	Unknown Privilege	23	2	0	0	2	2	2	0
UnKnown TestType	Partial	Non-STAR Test and Repair	848	19	0	3	12	23	12	8
UnKnown TestType	Partial	Non-STAR Test Only	108	2	0	0	2	3	2	0
UnKnown TestType	Partial	STAR Test and Repair	399	17	0	2	9	18	9	9
UnKnown TestType	Partial	STAR Test Only	381	14	0	1	10	13	10	5
UnKnown TestType	Unknown Program	Government Fleet	0	0	0	0	0	9	0	0
UnKnown TestType	Unknown Program	Non-STAR Test and Repair	449	15	0	2	13	51	13	2
UnKnown TestType	Unknown Program	Non-STAR Test Only	81	4	0	0	2	9	2	2
UnKnown TestType	Unknown Program	Referee	13	1	0	1	0	1	0	1
UnKnown TestType	Unknown Program	STAR Test and Repair	389	14	0	3	8	26	8	7
UnKnown TestType	Unknown Program	STAR Test Only	474	25	0	6	17	32	17	9